

PATENT

Serial No. 10/599,069

Amendment in Reply to Office Action mailed on July 7, 2009
And Supplemental to the Amendment filed on October 7, 2009

IN THE ABSTRACT

Please delete the New Abstract included in the Amendment filed on October 7, 2009 in its entirety, and substitute therefor the enclosed further New Abstract.

NEW ABSTRACT

An optical scanning device scans optical record carriers, such as three optical record carriers, where each optical record carrier has an information layer having a depth which is different from the information layer depth of other optical record carriers, where $d_3 < d_2 < d_1$, and where d_1 , d_2 , d_3 are the information layer depths of the first, second, and third optical record carriers, respectively. The scanning device includes a radiation source system for producing three radiation beams of different wavelengths for scanning the three record carriers. The scanning device further includes a diffraction structure for introducing three different wavefront modifications into the three radiation beams, respectively. The diffraction structure is arranged to operate at selected diffraction orders m_1 , m_2 , m_3 , for the three radiation beams, respectively. The diffraction structure is arranged such that the following relation holds: $-1 < \frac{(m_3 - m_2)}{(m_2 - m_1)} - \frac{(d_3 - d_2)}{(d_2 - d_1)} < 1$